

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN GST20

MAXIM INTEGRATED

**160 RIO ROBLES
SAN JOSE, CA 95134**

**This Report was prepared by
MAXIM INTEGRATED Reliability Engineering**

Summary:

The data in the tables that follow was generated as the result of an on-going Process Reliability Monitor. The specific products in this process monitor are:

MAX2235EUP+	MAX2248ETE+	MAX3645EEE+	MAX3969ETP+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 97003 QUANTITY: 628 FAILS: 0 FITS: 1.2

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: MFN GST20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1613	MAX3645EEE+	135°C	1000 HRS	54	0	NNL0AA122Q1
HIGH TEMP OP LIFE	1613	MAX3645EEE+	135°C	1000 HRS	55	0	NNL0AA122Q1
HIGH TEMP OP LIFE	1613	MAX3645EEE+	135°C	1000 HRS	55	0	NNL0AA122Q2
HIGH TEMP OP LIFE	1635	MAX3969ETP+	135°C	1000 HRS	48	0	NSM0AA201AB
HIGH TEMP OP LIFE	1635	MAX3969ETP+	135°C	1000 HRS	32	0	NSM0AA201AB
HIGH TEMP OP LIFE	1641	MAX2235EUP+	135°C	1000 HRS	80	0	NW2AFA098EF
HIGH TEMP OP LIFE	1646	MAX3969ETP+	135°C	1000 HRS	48	0	NSM0AA203CA
HIGH TEMP OP LIFE	1706	MAX2248ETE+	135°C	192 HRS	80	0	NBOIQ001CQ
HIGH TEMP OP LIFE	1715	MAX2235EUP+	135°C	1000 HRS	80	0	NW2AFA101BA
HIGH TEMP OP LIFE	1725	MAX3969ETP+	135°C	500 HRS	48	0	NSM0A2206B
HIGH TEMP OP LIFE	1725	MAX3969ETP+	135°C	192 HRS	48	0	NSM0A2206B
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1635	MAX3969ETP+	150°C	1000 HRS	80	0	NSM0AA201AB
STORAGE LIFE	1641	MAX2235EUP+	150°C	1000 HRS	80	0	NW2AFA098EF
STORAGE LIFE	1646	MAX3969ETP+	150°C	1000 HRS	80	0	NSM0AA203CA
STORAGE LIFE	1715	MAX2235EUP+	150°C	1000 HRS	80	0	NW2AFA101BA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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TEMP CYCLE, 5' RAMP, 10' DWELL	1614	MAX3969ETP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSM0A3142G
TEMP CYCLE, 5' RAMP, 10' DWELL	1635	MAX3969ETP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSM0AA201AB
TEMP CYCLE, 5' RAMP, 10' DWELL	1641	MAX2235EUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NW2AFA098EF
TEMP CYCLE, 5' RAMP, 10' DWELL	1646	MAX3969ETP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NSM0AA203CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOIQ001B#
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOIQ001B\$
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX2248ETE+	-65C TO +150C (Condition C)	1000	CYS	100	0	NBOIQ001B%
TEMP CYCLE, 5' RAMP, 10' DWELL	1715	MAX2235EUP+	-65C TO +150C (Condition C)	1000	CYS	80	0	NW2AFA101BA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1641	MAX2235EUP+	130C, 85%	96	HRS	80	0	NW2AFA098EF
BIASED MOISTURE	1646	MAX3969ETP+	130C, 85%	96	HRS	43	0	NSM0AA203CA
BIASED MOISTURE	1715	MAX2235EUP+	130C, 85%	96	HRS	79	0	NW2AFA101BA
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1635	MAX3969ETP+	130C, 85%	96	HRS	80	0	NSM0AA201AB
Total:							0	

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